



Job Profile – Level 3

Siemens Mechatronic Systems Certification Program (SMSCP)
[siemens.com/sitrain-smscp](https://www.siemens.com/sitrain-smscp)

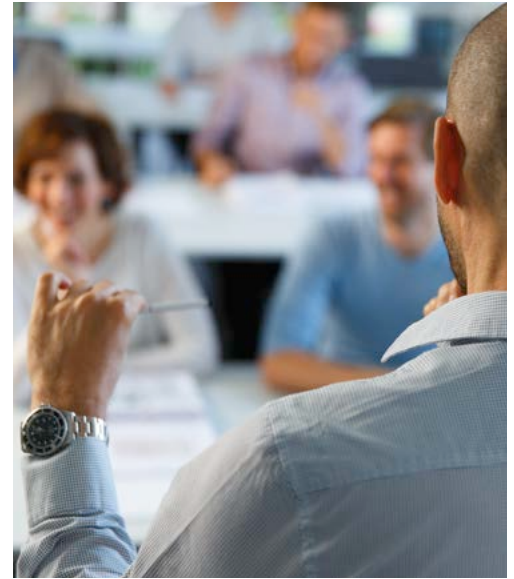
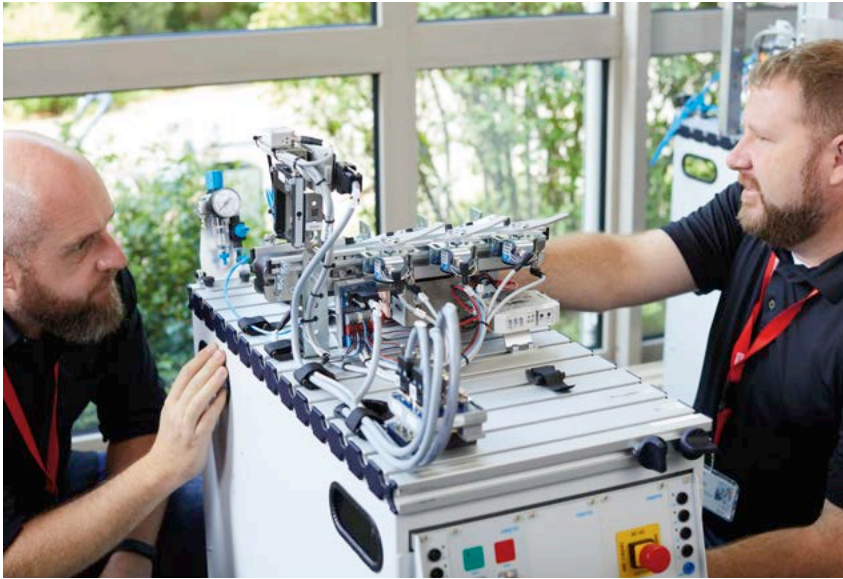


Certified Mechatronic Systems Professional (Engineer)

A Siemens Certified Mechatronic Systems Professional functions as a skilled designer of, and expert on, complex mechatronic systems. They excel in applying comprehensive project and system engineering practices, including requirements engineering, project management, process management, and quality assurance. Their expertise enables them to design and improve mechatronic systems that precisely align with customer and user requirements.

Operating across all engineering environments, from office spaces to production facilities, workshops, and service sites, these professionals demonstrate exceptional versatility in their work scope. They can effectively lead individual projects or serve as valuable members of project teams responsible for the design, management, and improvement of complex mechatronic systems. This flexibility in both working environment and project role ensures optimal system integration and project success.

SIEMENS



Skill set of a Certified Mechatronic Systems Professional:

- Understands the complete mechatronic system life cycle, including impact on, and from, customers, sales, marketing, production, suppliers, and maintenance
- Applies project management methods and tools using concepts like PMI and CMMI®, team management principles, and communication skills
- Develops high-level plans by defining appropriate mechatronic systems, design methods, validation, and solutions based on customer specifications
- Designs specific mechatronic systems, connecting machine elements, actuators, pneumatics, and electric drives. Analyses the technical impact of the new/changed mechatronics system parts
- Selects precise automation technology based on the mechanical and electronic composition of the system and set by the functional requirements
- Creates and communicates electrical and mechanical designs using CAD tools
- Uses deep industrial communications knowledge to design, program, and troubleshoot PLC networks and advanced automation system communication integration projects
- Structures comprehensive system tests to ensure optimization of cost, quality, and efficiency
- Verifies customer requirements are met and fit into the overall mechatronic system life cycle by applying claim management, knowledge management, and performance measurement principles

Siemens Certified Mechatronic Systems Professionals understand how mechatronic systems function at an advanced level.

Building on the skill sets of Levels 1 and 2, they translate customer requirements into detailed technical specifications and tasks.

In addition to designing and managing new systems, they optimize and improve existing systems using project and process management methods and tools.

Published by
Siemens AG
Digital Industries
Customer Services
P.O. Box 31 80
91050 Erlangen, Germany

For the U.S. published by
Siemens Industry Inc.
100 Technology Drive
Alpharetta, GA 30005,
United States

Article No. DICS-B10125-00-7600
MÜ2208 SB 0725 PDF

© Siemens 2025
Subject to changes and errors.

SIEMENS